What Is Claimed Is:

1. A flat luminescence lamp, comprising:

a first substrate having a first surface and a second surface;

a second substrate having a first surface disposed facing opposite to the first surface of the first substrate:

a first luminescence layer formed on the first surface of the first substrate:

a second luminescence layer formed on the first surface of the second substrate; and,

a plurality of grooves formed on the second surface of the first substrate.

- 2. The flat luminescence lamp according to claim 1, wherein the grooves are formed as a matrix unit with the first substrate.
- 3. The flat luminescence lamp according to claim 1, wherein the luminescence layer includes first electrodes formed upon the first substrate, second electrodes formed upon a surface of the second substrate opposite to the first substrate, a first fluorescent material layer formed upon the first electrodes, and a second fluorescent material layer formed on the second electrodes.

- 4. The flat luminescence lamp according to claim 1, wherein the first substrate is formed of metal or ceramic, and the second substrate is formed of glass.
- 5. A flat luminescence lamp, comprising:
 - a first substrate having a first surface and a second surface;
- a plurality of grooves formed on the second surface of the first substrate;
- a second substrate having a first surface and a second surface, the first surface of the first substrate opposing the first surface of the second substrate;
- a plurality of first electrodes formed on the first surface of the first substrate;
- a plurality of second electrodes formed on the first surface of the second substrate opposing the first electrodes;
- a first fluorescent material layer formed on the first surface of the first substrate;
- a second fluorescent material layer formed on the first surface of the second substrate opposing the first fluorescent material layer; and
- a plurality of frame portions formed on the first surface of the first substrate and the first surface of the second substrate to seal the first substrate and the second substrate.

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- 6. The flat luminescence lamp according to claim 5, wherein the first substrate is formed of metal or ceramic, and the second substrate is formed of glass.
- 7. The flat luminescence lamp according to claim 5, wherein the first substrate includes a first flat layer of a fixed area, and a second layer formed upon the first flat layer, wherein the second layer is formed of a matrix.
- 8. The flat luminescence lamp according to claim 5, further comprising an insulating layer formed upon the first surface of the first substrate.
- 9. The flat luminescence lamp according to claim 5, further comprising a first dielectric layer formed on the first substrate to cover the first electrodes, and a second dielectric layer formed on the second substrate to cover the second electrodes.
- 10. The flat luminescence lamp according to claim 9, further comprising a reflective material layer formed on the first dielectric layer.
- 11. The flat luminescence lamp according to claim 5, wherein the second electrode is formed of a transparent conductive material.

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12. A method for fabricating a flat luminescence lamp, comprising the steps of:

forming a first substrate having a plurality of grooves on a first surface;

forming a plurality of first electrodes on the first substrate;

forming a plurality of second electrodes on a second substrate disposed opposite to the first substrate;

forming a first fluorescent material layer on a second surface of the first substrate;

forming a second fluorescent material layer formed on a surface of the second substrate; and

forming a discharge space between the first substrate and the second substrate with a frame disposed between the first substrate and the second substrate.

- 13. The method according to claim 12, further comprising a step of forming an insulating film upon the first substrate.
- 14. The method according to claim 13, wherein the plurality of first electrodes are formed upon the insulating layer.

- 15. The method according to claim 12, further comprising a step of forming a dielectric material layer between the plurality of first electrodes and the first fluorescent material layer, and forming a second dielectric material layer between the plurality of second electrodes and the second fluorescent material layer.
- 16. The method according to claim 12, further comprising steps of:

bonding the first substrate and the second substrate to oppose each other after the steps of forming the first and second fluorescent material layers; and

injecting a discharge gas into the discharge space between the first substrate and the second substrate.

- 17. The method according to claim 12, wherein the frame is formed from a paste made of a glass material.
- 18. The method according to claim 12, wherein the step of forming the first substrate includes the steps of coating a photosensitive material on a first surface of a metal layer, patterning the photosensitive material to form a mask pattern of a matrix form, and etching the metal layer to a depth by using the mask pattern as a mask.

- 19. The method according to claim 13, wherein the insulating layer is formed to a predetermined thickness to electrically insulate the first substrate from the plurality of first electrodes.
- 20. The method according to claim 15, further comprising the step of forming a reflective material layer upon the first dielectric material layer.